

**Petroglyph Operating Co., Inc.**  
**P.O. Box 607**  
**Roosevelt, UT 84066**

February 12, 2004

Utah Division of Oil, Gas, & Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, UT 84114-5801

RE: APPLICATION FOR PERMIT TO DRILL  
UTE TRIBAL #16-12M  
SW/SE, SEC. 16, T5S, R3W  
DUCHESNE COUNTY, UTAH  
LEASE NO.: BIA 14-20-H62-3511  
UTE INDIAN TRIBAL LANDS

Enclosed please find a copy of the Application for Permit to Drill and associated attachments for the referenced well.

Please address further communication regarding this matter (including approval) to:

Ed Trotter  
P.O. Box 1910  
Vernal, UT 84078  
Phone: (435)789-4120  
Fax: (435)789-1420

Sincerely,



Ed Trotter  
Agent  
Petroglyph Operating Co., Inc.

Attachments

RECEIVED  
FEB 26 2004  
DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

001

APPLICATION FOR PERMIT TO DRILL OR REENTER

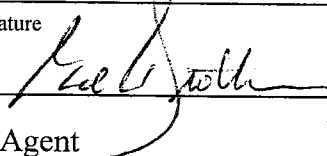
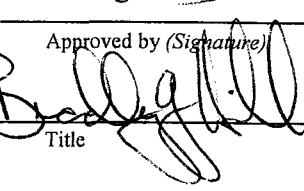
FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>14-20-H62-3511</b>
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name <b>UTE INDIAN TRIBE</b>
2. Name of Operator <b>PETROGLYPH OPERATING CO., INC.</b>		7. If Unit or CA Agreement, Name and No. <b>UTE TRIBAL</b>
3a. Address <b>P.O. BOX 607, ROOSEVELT, UT 84066</b>		8. Lease Name and Well No. <b>UTE TRIBAL 16-12M</b>
3b. Phone No. (Include area code) <b>(435)722-2531</b>		9. API Well No. <b>43-013-32545</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>1251' FSL, 2618' FEL (&amp; 2666' FWL) SW/SE</b> <b>4432573 Y 40.04271</b> At proposed prod. Zone - <b>565907X - 110.22743</b>		10. Field and Pool, or Exploratory <b>ANTELOPE CREEK</b>
14. Distance in miles and direction from nearest town or post office* <b>19.96 MILES SOUTHWEST OF MYTON, UTAH</b>		11. Sec., T., R., M., or Blk. and Survey or Area <b>SEC. 16, T5S, R3W, U.S.B.&amp;M.</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. Unit line, if any) <b>1251'</b>	16. No. of Acres in lease <b>640'</b>	12. County or Parish <b>DUCHESNE</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>See Topo Man "C"</b>	19. Proposed Depth <b>6000'±</b>	13. State <b>UTAH</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>6262.6 FEET GRADED GROUND</b>	22. Approximate date work will start* <b>UPON APPROVAL</b>	17. Spacing Unit dedicated to this well
20. BLM/BIA Bond No. on file <b>BO 4556</b>		23. Estimated duration <b>45 DAYS</b>

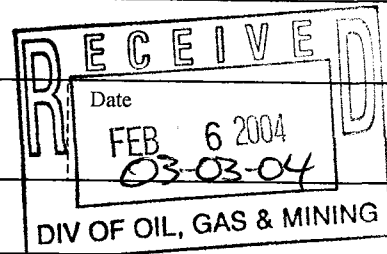
24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature 	Name (Printed/Typed) <b>Ed Trotter</b>	Date <b>February 12, 2004</b>
Title <b>Agent</b>		
Approved by (Signature) 	Name (Printed/Typed) <b>BRADLEY G. HILL</b> <b>ENVIRONMENTAL SCIENTIST III</b>	
Title <b></b>	Office <b></b>	

Federal Approval of this  
Action is Necessary

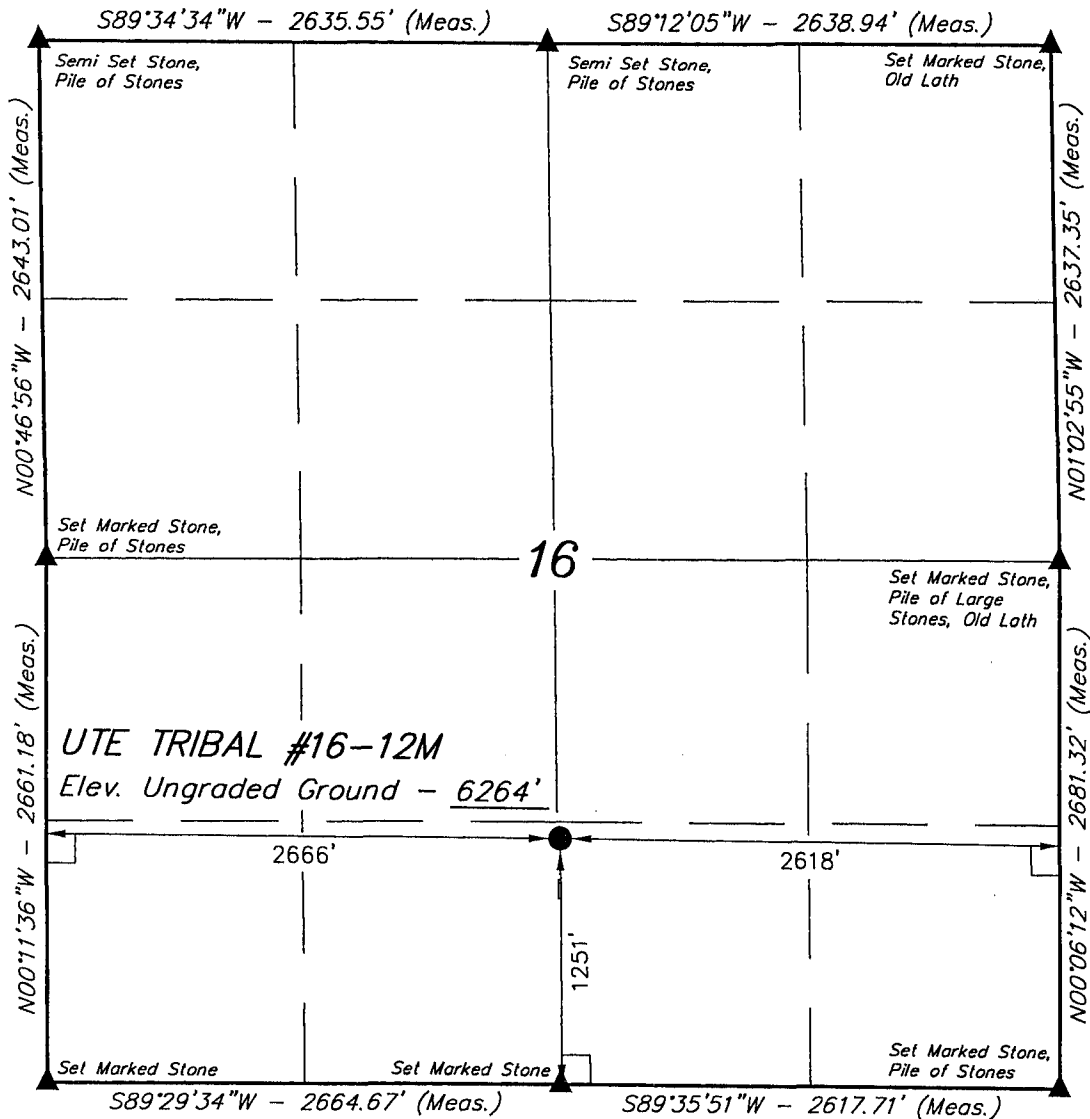


Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of Approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

T5S, R3W, U.S.B.&M.



LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(AUTONOMOUS NAD 83)  
 LATITUDE = 40°02'33.50" (40.042639)  
 LONGITUDE = 110°13'40.55" (110.227931)

PETROGLYPH OPERATING CO., INC.

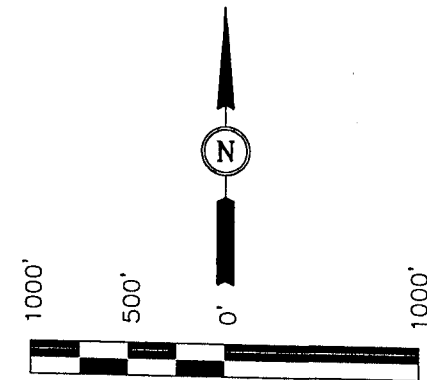
Well Location, UTE TRIBAL #16-12M, located as shown in SW 1/4 SE 1/4 of Section 16, T5S, R3W, U.S.B.&M. Duchesne County, Utah.

BASIS OF ELEVATION

BRASS CAP SET IN CONCRETE BY SUNRISE ENGINEERING LOCATED IN THE SE 1/4 OF SECTION 16, T5S, R3W, U.S.B.&M. SAID ELEVATION IS MARKED AS BEING 6281.9 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert H. King*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 12-02-03	DATE DRAWN: 12-11-03
PARTY D.K. P.J. D.COX	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE PETROGLYPH OPERATING CO., INC.	

## EIGHT POINT PLAN

UTE TRIBAL #16-12M  
SW/SE, SECTION 16, T5S, R3W, U.S.B.&M.  
DUCHESNE COUNTY, UTAH

### 1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Mahogany Shale	2934.4	3412
"X" Marker	4514.4	1832
Douglas Creek	4654.4	1692
"B" Limestone	5036.4	1310
B/Castle Peak Limestone	5596.4	750
Total Depth	6000	386
Anticipated BHP	2535	

### 2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS FORMATIONS:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Oil/Gas	Douglas Creek	4654.4	1692
Oil/Gas	B/Castle Peak	5596.4	750
Other mineral zones	N/A		

### 3. PRESSURE CONTROL EQUIPMENT: BOP Schematic Diagram attached.

### 4. CASING PROGRAM:

<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>LENGTH</u>	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>MINIMUM SAFETY FACTOR</u>		
						<u>COLLAPSE</u>	<u>BURST</u>	<u>TENSILE</u>
12 1/4"	0 - 280'	280'	8 5/8"	24.0#	J-55	1370 PSI	2950 PSI	263,000#
7 7/8"	0 - 6000'	6000'	5 1/2"	15.5#	J-55	4040 PSI	4810 PSI	239,000#

All casing will be new or inspected.

### 5. MUD PROGRAM

<u>INTERVAL</u>	<u>MUD TYPE</u>
0' - 250'	Air
250 - 4000'	Air/Mist & Aerated Water
4000' - TD	Air/3% KCL water or KCL substitute
TD	Gel/polyacrylamide polymer w/5-10% LCM

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

## **EIGHT POINT PLAN**

**UTE TRIBAL #16-12M  
SW/SE, SECTION 16, T5S, R3W, U.S.B.&M.  
DUCHESNE COUNTY, UTAH**

### **6. VARIANCE REQUESTS:**

- A. Petroglyph Operating Company, Inc. requests a variance to regulations requiring a straight run blooie line.
- B. Petroglyph Operating Company, Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line.

### **7. EVALUATION PROGRAM:**

Logs: Platform Express TD to base of surface casing  
(DLL, MSFL, CNG, CDL, GR)

Cores: None anticipated  
DST: None Programmed

Completion: To be submitted at a later date.

### **8. ABNORMAL CONDITIONS:**

None anticipated.

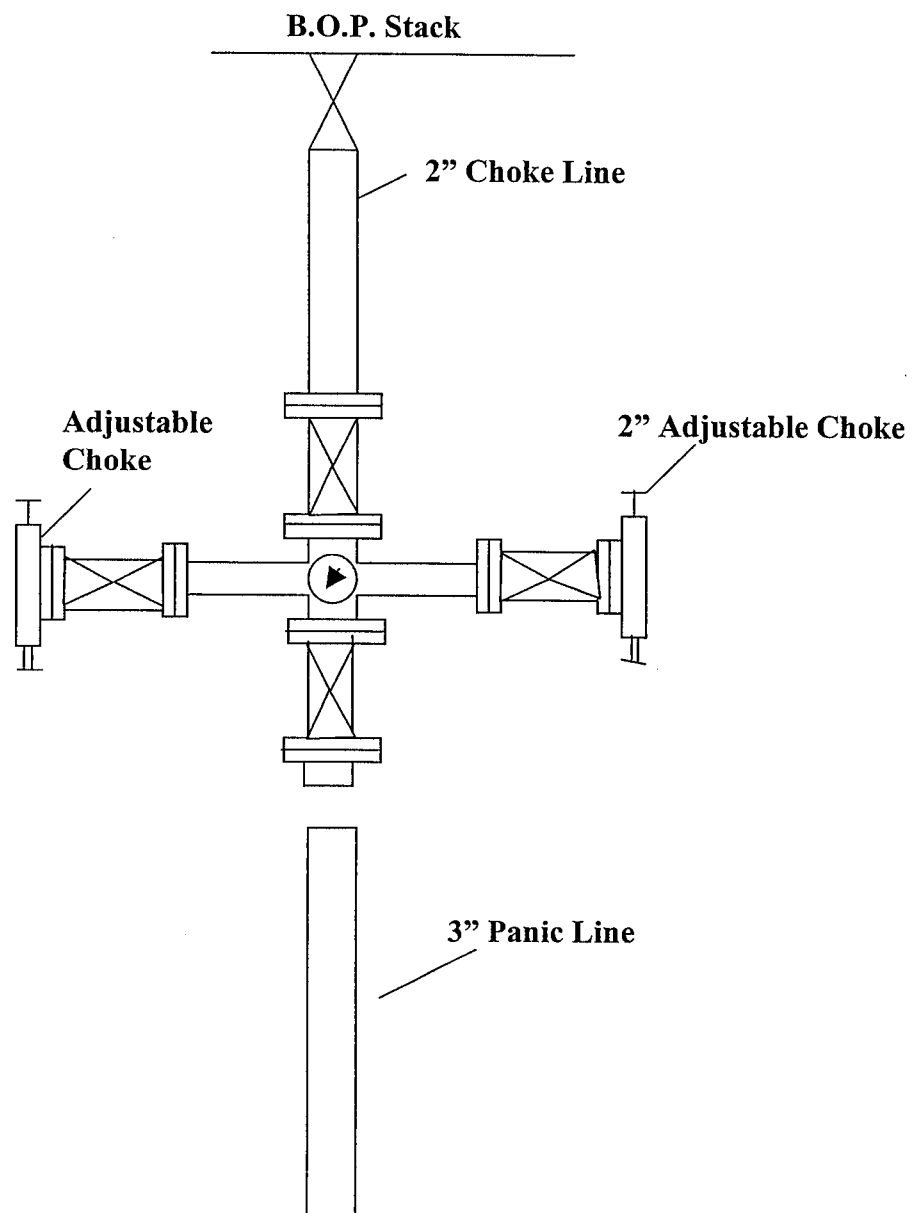
### **9. STANDARD REQUIRED EQUIPMENT:**

None Required

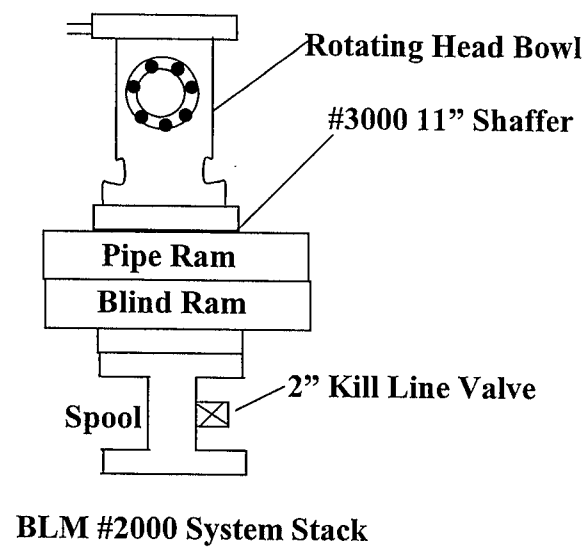
### **10. HAZARDOUS CHEMICALS:**

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

(Attachment: BOP Schematic Diagram)



**BLM #2000 Choke Manifold System**



**BLM #2000 System Stack**

**CONDITIONS OF APPROVAL  
FOR THE SURFACE USE PROGRAM OF THE  
APPLICATION FOR PERMIT TO DRILL**

Company/Operator: Petroglyph Operating Co. Inc.  
Well Name & Number: Ute Tribal #16-12M  
Lease Number: BIA 14-20-H62-3511  
Location: 1251' FSL & 2618' FEL (and 2666' FWL)  
SW/SE, Sec. 16, T5S, R3W, U.S.B.&M.,  
Duchesne County, Utah  
Surface Ownership: Ute Indian Tribe

**NOTIFICATION REQUIREMENTS**

Location Construction - forty-eight (48) hours prior to construction  
of location and access roads.

Location Completion - prior to moving on the drilling rig.

Spud Notice: - at least twenty-four (24) hours prior to  
spudding the well.

Casing String and  
Cementing - twenty-four (24) hours prior to running  
casing and cementing all casing strings.

BOP and related  
Equipment Tests - twenty-four (24) hours prior to running  
casing and tests.

First Production  
Notice - within five (5) business days after new well  
begins or production resumes after well  
has been off production for more than  
ninety (90) days.

For more specific details on notification requirements, please check the Conditions of  
Approval for Notice to Drill and Surface Use Program.

## **THIRTEEN POINT SURFACE USE PROGRAM**

### **1. EXISTING ROADS**

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing roads.
- B. The proposed well site is located approximately 19.96 miles southwest of Myton, Utah - See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

### **2. PLANNED ACCESS ROAD**

- A. The access road will be approximately 300 feet in length. See attached TOPO Map "B".
- B. The access road has a 30 foot ROW w/ 18 foot running surface.
- C. Maximum grade on access road will be 8%.
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No culverts, bridges, or major cuts and fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards, or fences will be required or encountered.

New or reconstructed roads will be centerlined - flagged at time of location staking.

All travel will be confined to existing access road Right-of-Way.

Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service Publication: Surface Operating Standards For Oil & Gas Exploration and Development, (1989).

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, drainage, graveling, crowning, and capping the roadbed as necessary to provide a well-constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot Right-of-Way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by run off water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed



during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, Petroglyph Operating Co., Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

3. **LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION**

- A. Abandoned wells - 7\*
  - B. Temporarily abandoned wells - 1\*
  - C. Producing wells - 21\*
  - D. Shut in wells - 3\*
- (\*See attached TOPO map "C" for location)

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

A. **ON WELL PAD**

- 1. Production facilities - To be submitted later

B. **OFF WELL PAD**

- 1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
- 2. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.
- 3. A 41/2" OD steel above ground production pipeline will be laid approximately 1540' from proposed location to a point in the SE/SW of Section 16, T5S, R3W, where it will tie into Petroglyph Operating Co. Inc.'s existing pipeline. Proposed pipeline crosses Ute Tribe lands, thus a Right-of -Way grant will be required. See attached TOPO Map "D" showing pipeline route.
- 4. Proposed pipeline will be a 4 1/2 " OD steel, welded line laid on the surface.

If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire contents of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.

The production facilities will be placed on the Northeast side of the location.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities required will be painted within 6 months of installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded. The required paint color is Desert Brown.

5. **LOCATION & TYPE OF WATER SUPPLY**

- A. Water supply will be from Target Trucking's Roosevelt Brine Storage and/or Target's water source in SE ¼, Sec. 1, T4S, R5W, Duchesne, Utah (State Water Right #43-10152). All water will come from a non-depletable source.
- B. Water will be hauled by a licensed trucking company.
- C. No water well will be drilled on lease.

6. **SOURCE OF CONSTRUCTION MATERIAL**

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of the location.
- B. All construction material will come from Ute Tribal Land.
- C. No mineral materials will be required.

7. **METHODS OF HANDLING WASTE DISPOSAL**

A. METHODS AND LOCATION

- 1. Cuttings will be confined in the reserve pit.
- 2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
- 3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at an approved waste disposal facility.
- 4. Produced waste water will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, together with the required water analysis, will be submitted for the AO's approval.
- 5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on the drilling rig to avoid leakage of oil to the pit.

- B. Water from drilling fluids and recovered during testing operations will be

disposed of by either evaporating in the reserve pit or be removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to the reserve pit will be avoided by flaring them off in the flare pit at the time of recovery.

Burning of trash will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

**On BIA administered land:**

All reserve pits will be lined with either native clay, commercial bentonite or plastic sufficient to prevent seepage. (If a plastic nylon reinforced liner is used, it shall be torn and perforated after the pit dries and before backfilling of the reserve pit).

**A 12 mill liner shall be installed in the reserve pit.**

\_\_\_\_ To protect the environment:

If the reserve pit is lined, the operator will provide the BIA with a chemical analysis of the fluids in that pit no later than 90 days after the well completion to determine the method for final reclamation of the reserve pit. If the elemental concentrations shown by the chemical analysis exceeds the requirements described by Part II, Standards of Quality for Waters of the State, Wastewater Disposal Regulations, State of Utah Division of Health, the contents and liner will be removed and disposed of at an authorized disposal site.

\_\_\_\_ To protect the environment (without chemical analysis), reserve pits will be constructed so as not to leak, break, or allow discharge of liquids.

\_\_\_\_ Storage tanks will be used if drill sites are located on tribal irrigable land, flood plains, or on lands under crop production. After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

**7. ANCILLARY FACILITIES**

- No airstrips or camps are planned for this well.

**9. WELLSITE LAYOUT**

- A. Refer to attached well site plat for related topography cuts and fills and cross Sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.

- C. Refer to attached well site plat for rig orientation, parking areas, and access road.

The reserve pit will be located on the Southeast side of the location. The flare pit will be located downwind of the prevailing wind direction on the South side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled topsoil will be stored between Corners #5 & #6, as well as between Corners #2 & #8 of the location.

Access to the well pad will be from the Southwest.

Corners #2 & #6 will be rounded off to minimize excavation.

#### **10. FENCING REQUIREMENTS:**

All pits will be fenced according to the following minimum standards:

- A. Thirty-nine inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
- B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C. Corner posts shall be cemented and/or braced in such a manner as to keep the fence tight at all times.
- D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
- E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and, upon completion of construction, the fence shall be repaired to BIA or SMA specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is to be regularly traveled. If the well is a producer, the cattleguards (shall/shall not) be permanently mounted on concrete bases. Prior to crossing any fence located on Tribal land, or any fence between Tribal land and private land, the operator will contact the BIA, who will in turn contact the

grazing permittee or owner of said fence and offer him/her the opportunity to be present when the fence is cut in order to satisfy himself/herself that the fence is adequately braced and tied off.

11. **PLANS FOR RESTORATION OF SURFACE**

A. **PRODUCING LOCATION**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours.

The reserve pit will be reclaimed within 120 days from the date of well completion (weather permitting). Before any dirt work takes place, the reserve pit will be completely dry and all cans, barrels, pipe, fluid, and hydrocarbons, will be removed.

Contact appropriate surface management agency for required seed mixture.

B. **DRY HOLE/ABANDONED LOCATION**

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and the BIA will attach the appropriate surface rehabilitation conditions of approval.

**ON BIA ADMINISTERED LANDS:**

Abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include: (a) reestablishing irrigation systems where applicable, (b) reestablishing soil conditions in irrigated fields in such a way as to ensure cultivation and harvesting of crops and, © ensuring revegetation of the disturbed areas to the specifications of the Ute Indian Tribe or the BIA at the time of abandonment.

12. **SURFACE OWNERSHIP**

Access road: Ute Indian Tribe

Location: Ute Indian Tribe

13. **OTHER INFORMATION**

A. Petroglyph Operating Co., Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly

disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the AO. Within five working days the AO will inform the operator as to:

- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used.
- a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

- B. As operator, Petroglyph Operating Co., Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the BIA, or the appropriate County Extension Office. On BIA administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
- C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Tribal Lands after the conclusion of drilling operations or at any other time without BIA authorization. However, if BIA authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

**On BIA administered land:**

Operator's employees, including subcontractors, will not gather firewood along roads constructed by operators. If wood cutting is required, a permit will be obtained from the Forestry Department of the BIA pursuant to 25 CFR 169.13 "Assessed Damages Incident to Right-of-Way authorization". All

operators, subcontractors, vendors, and their employees or agents may not disturb saleable timber (including firewood) without a duly granted wood permit from the BIA Forester.

If the surface rights are owned by the Ute Indian Tribe and mineral rights are owned by another entity, an approved right-of-way will be obtained from the BIA before the operator begins any construction activities. If the surface is owned by another entity and the mineral rights are owned by the Ute Indian Tribe, rights-of-way will be obtained from the other entity.

All roads constructed by operators on the Uintah and Ouray Indian Reservation will have appropriate signs. Signs will be neat and of sound construction. They will state: (a) that the land is owned by the Ute Indian Tribe, (b) the name of the operator, © that firearms are prohibited to all non-Ute Tribal members, (d) that permits must be obtained from the BIA before cutting firewood or other timber products, and (e) only authorized personnel permitted. All well site locations on the Uintah and Ouray Indian Reservation will have an appropriate sign indicating the name of the operator, the lease serial number, the well name and number, the survey description of the well (either footage or the quarter-quarter section, the section, township, and range).

14. **Additional Surface Stipulations**

None

**LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION**

**PERMITTING**

Ed Trotter  
P.O. Box 1910  
Vernal, UT 84078  
Telephone: (435)789-4120  
Fax: (435)789-1420

**OPERATIONS**

Steve Wall  
P.O. Box 607  
Roosevelt, UT 84066  
(435)722-2531  
(435)722-9145

All lease or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. Petroglyph Operating Co., Inc. is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

A copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The BIA office shall be notified upon site completion prior to moving on the drilling rig.

**Certification**

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

2-12-2004  
Date

Ed Trotter  
Ed Trotter, as Agent for  
Petroglyph Operating Co., Inc.



PETROGLYPH OPERATING CO., INC.  
UTE TRIBAL #16-12M  
SECTION 16, T5S, R3W, U.S.B.&M.

PROCEED IN A SOUTHWESTERLY DIRECTION FROM MYTON, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 8.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 2.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 0.8 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 300' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM MYTON, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 19.9 MILES.

# PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #16-12M  
LOCATED IN DUCHESNE COUNTY, UTAH  
SECTION 16, T5S, R3W, U.S.B.&M.



PHOTO: VIEW FROM LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY



- Since 1964 -

**E&L S** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

12 18 03  
MONTH DAY YEAR

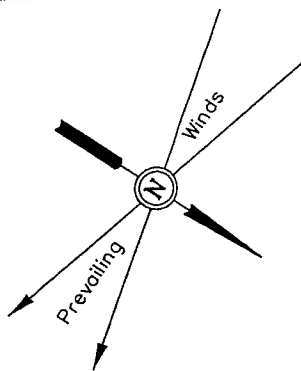
PHOTO

TAKEN BY: D.K.

DRAWN BY: T.H.

REVISED: 00-00-00

UTE TRIBAL #16-12M  
SECTION 16, T5S, R3W, U.S.B.&M.  
1251' FSL 2618' FEL \



El. 72.3  
C-17.  
(btm. pit)

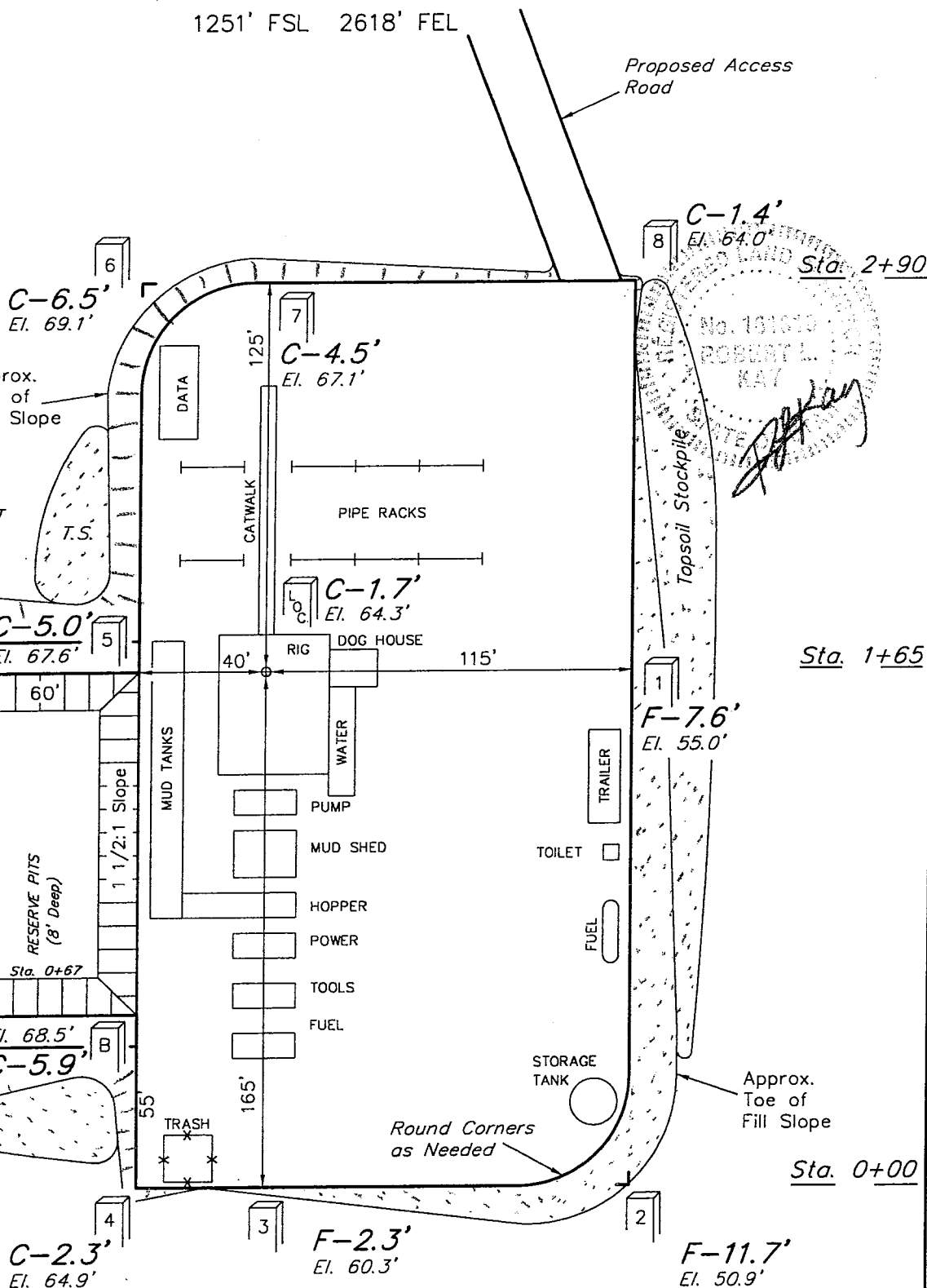
Reserve Pit Backfill  
& Spoils Stockpile

El. 76.1  
C-21  
(btm. pit)

NOTE:  
Pit Capacity W/2'  
of Freeboard is  
±4,600 Bbls.

Elev. Ungraded Ground At Loc. Stake = 6264.3'  
FINISHED GRADE ELEV. AT LOC. STAKE = 6262.6'

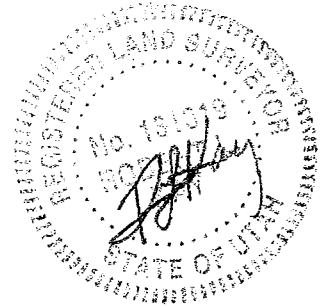
UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017



# PETROGLYPH OPERATING CO., INC.

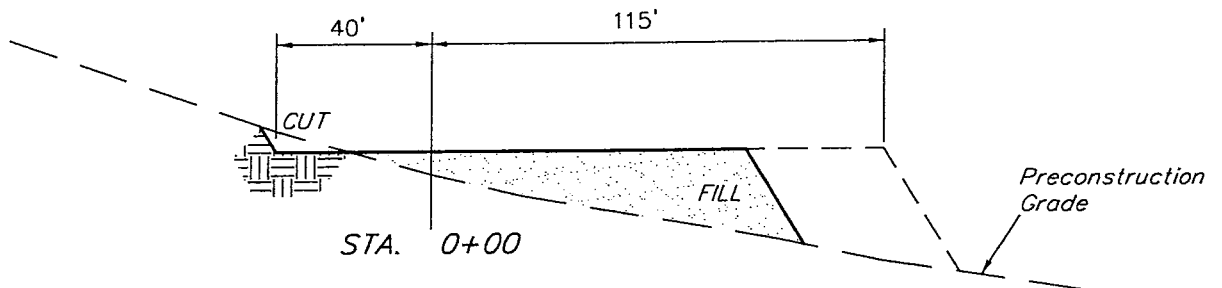
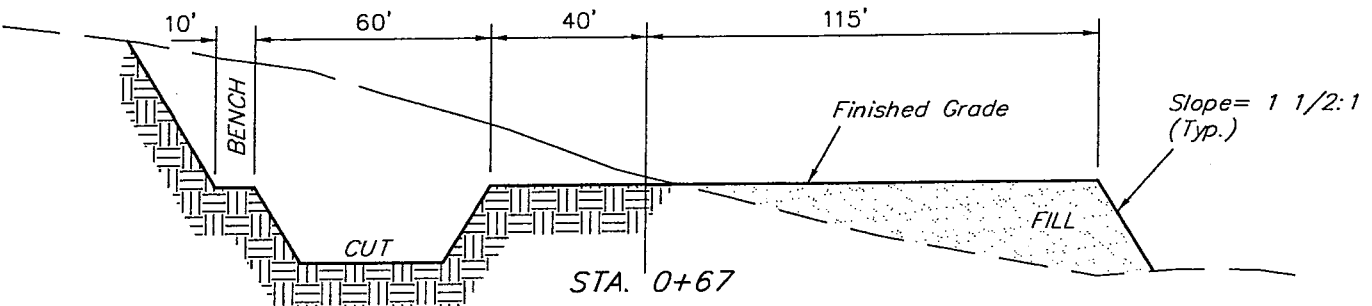
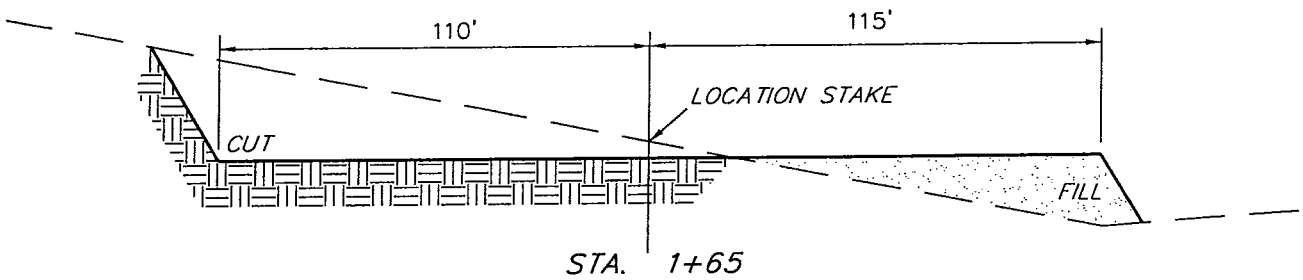
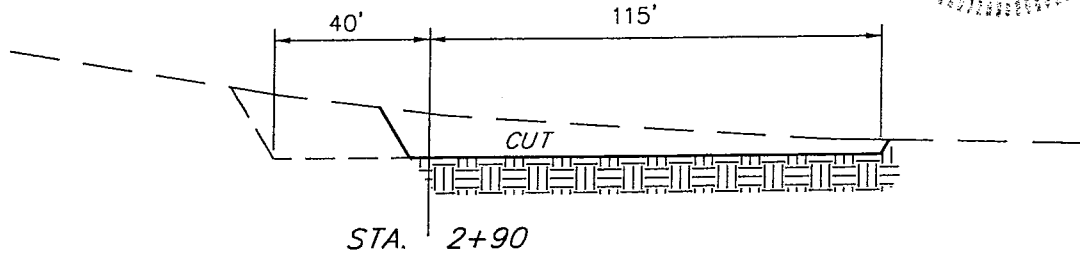
## TYPICAL CROSS SECTIONS FOR

UTE TRIBAL #16-12M  
SECTION 16, T5S, R3W, U.S.B.&M.  
1251' FSL 2618' FEL



1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 12-11-03  
Drawn By: D.COX

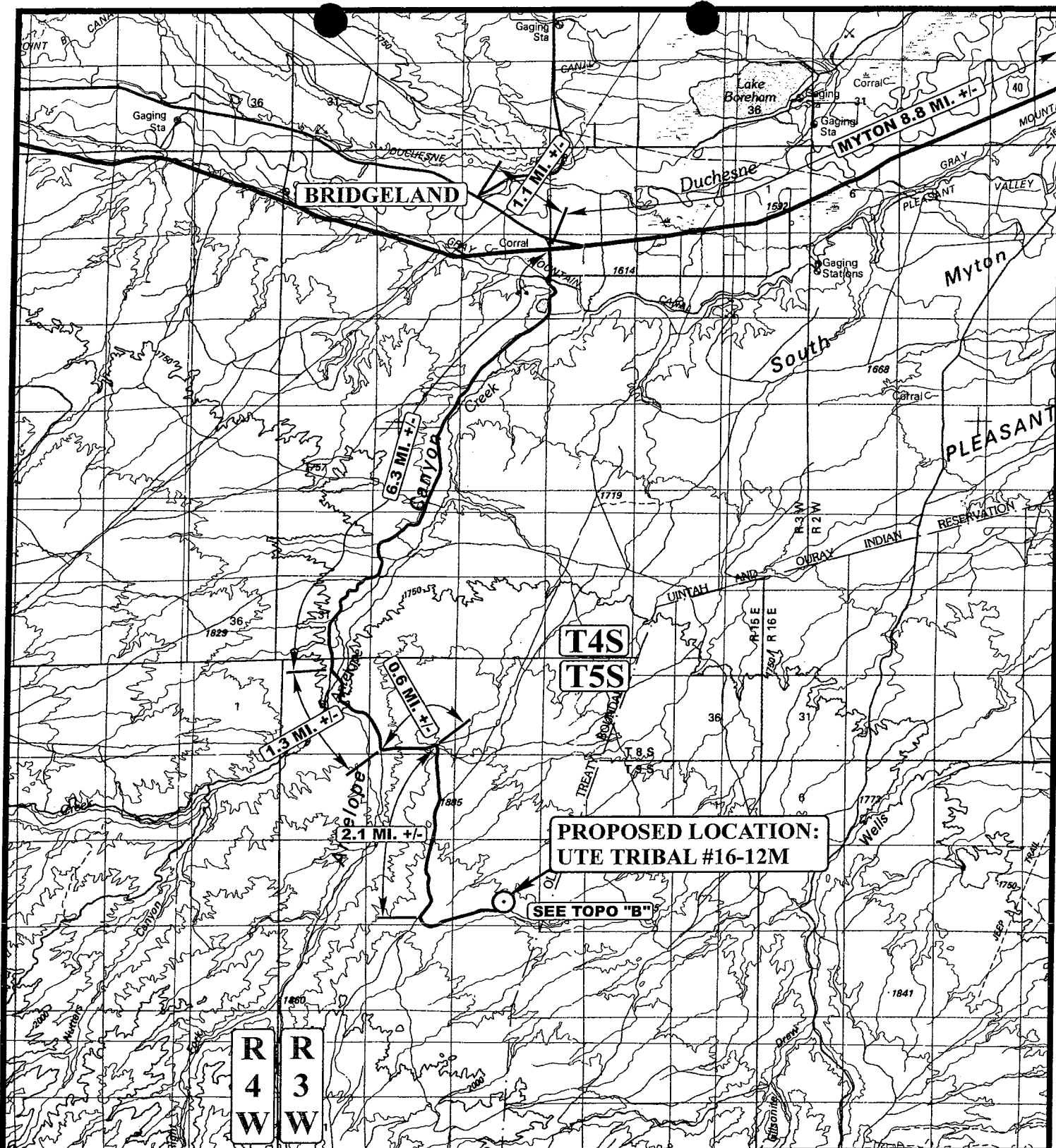


### APPROXIMATE YARDAGES

CUT  
(12") Topsoil Stripping = 2,000 Cu. Yds.  
Remaining Location = 6,150 Cu. Yds.  
TOTAL CUT = 8,150 CU.YDS.  
FILL = 5,180 CU.YDS.

EXCESS MATERIAL AFTER  
5% COMPACTION = 2,700 Cu. Yds.  
Topsoil & Pit Backfill  
(1/2 Pit Vol.) = 2,700 Cu. Yds.  
EXCESS UNBALANCE = 0 Cu. Yds.  
(After Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017



# LEGEND:

○ PROPOSED LOCATION

## PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #16-12M  
SECTION 16, T5S, R3W, U.S.B.&M.  
1251' FSL 2618' FEL



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

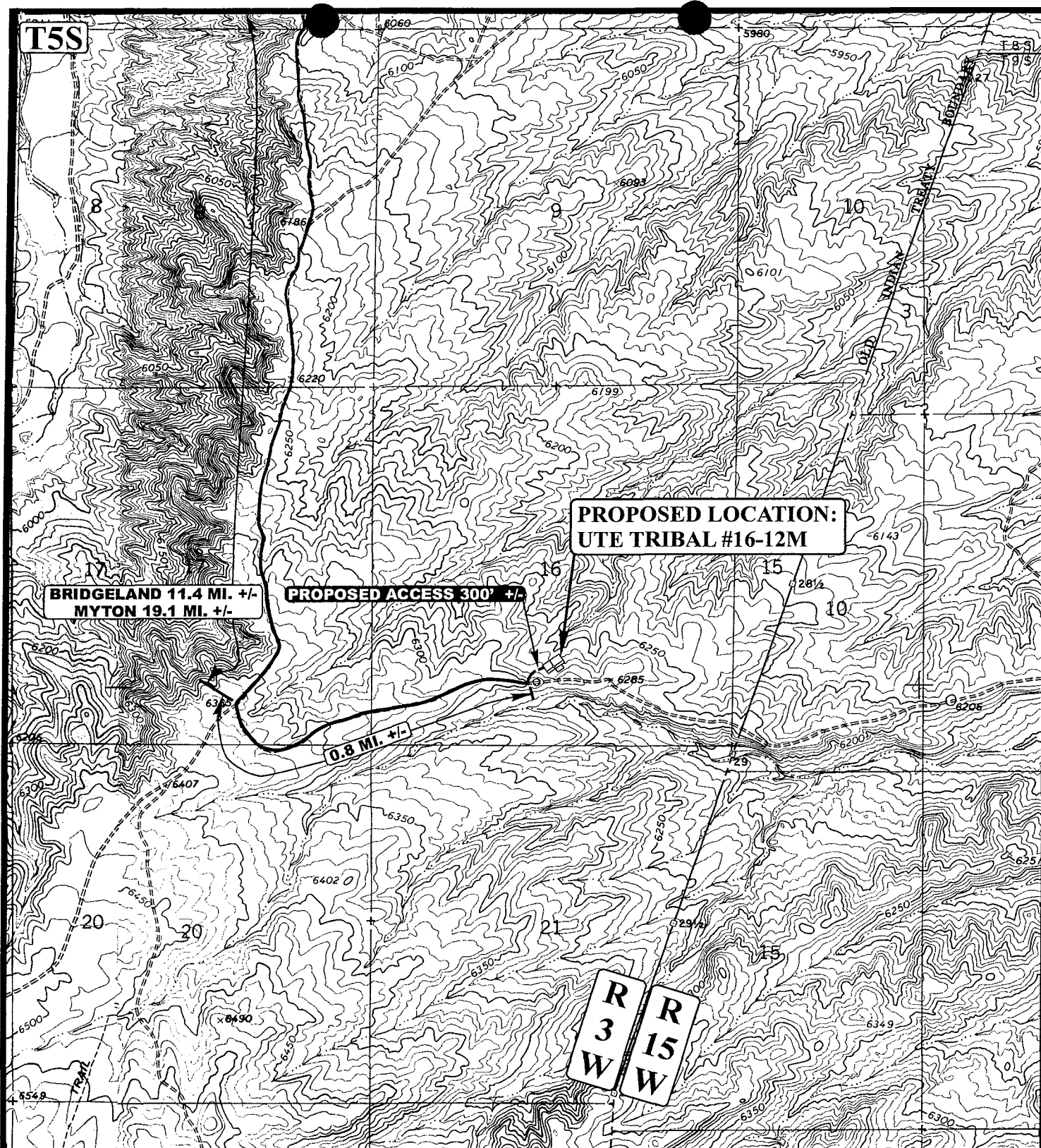


TOPOGRAPHIC  
MAP

12 18 03  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: T.H. REVISED: 00-00-00





# LEGEND:

EXISTING ROAD  
 PROPOSED ACCESS ROAD



Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



# PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #16-12M  
 SECTION 16, T5S, R3W, U.S.B.&M.  
 1251' FSL 2618' FEL

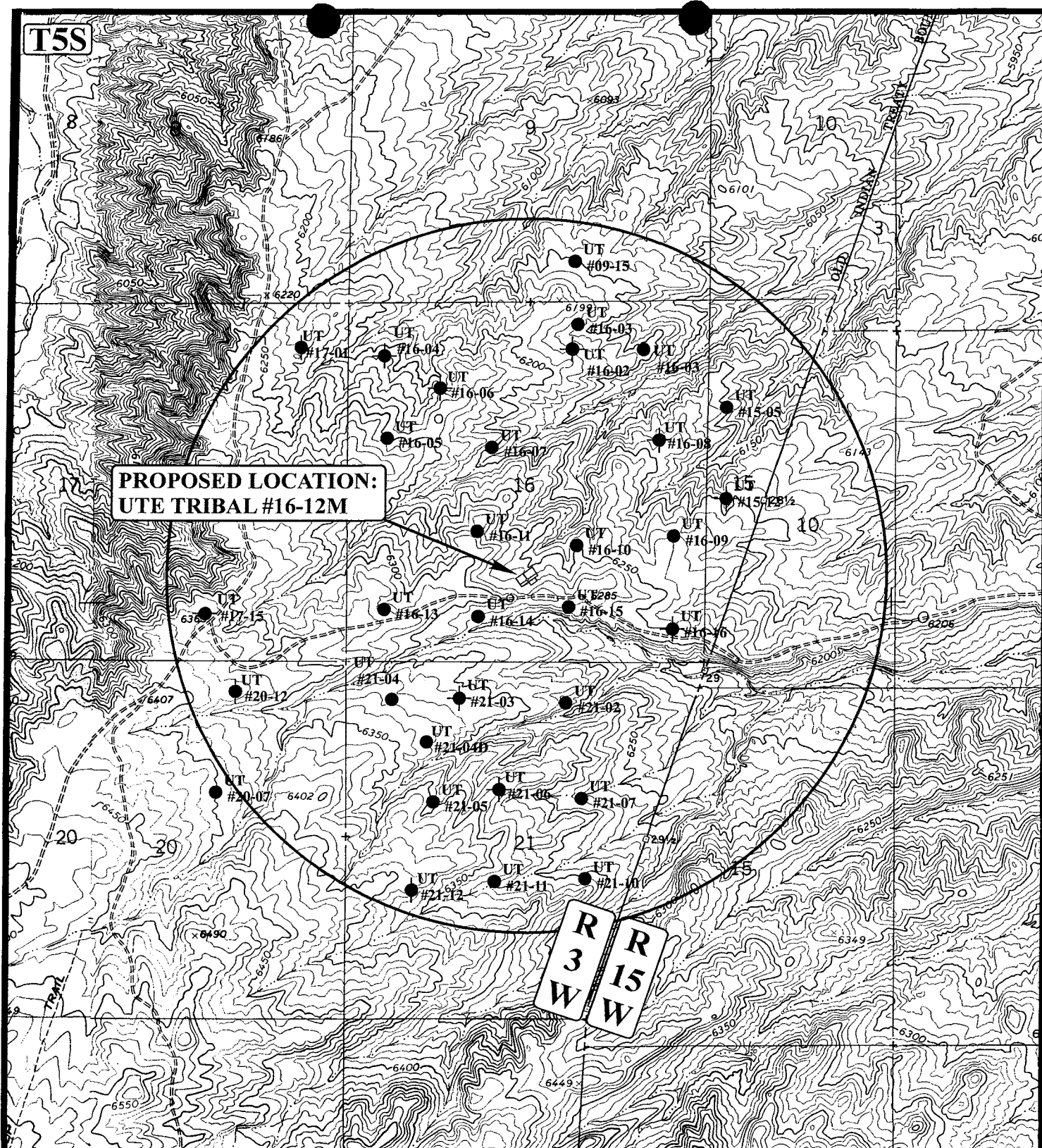
TOPOGRAPHIC  
 MAP

12 | 18 | 03  
 MONTH | DAY | YEAR

SCALE: 1" = 2000' DRAWN BY: T.H. REVISED: 00-00-00







# LEGEND:

- |                   |                         |
|-------------------|-------------------------|
| ○ DISPOSAL WELLS  | ○ WATER WELLS           |
| ● PRODUCING WELLS | ● ABANDONED WELLS       |
| ● SHUT IN WELLS   | ● TEMPORARILY ABANDONED |

# PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #16-12M  
 SECTION 16, T5S, R3W, U.S.B.&M.  
 1251' FSL 2618' FEL



Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

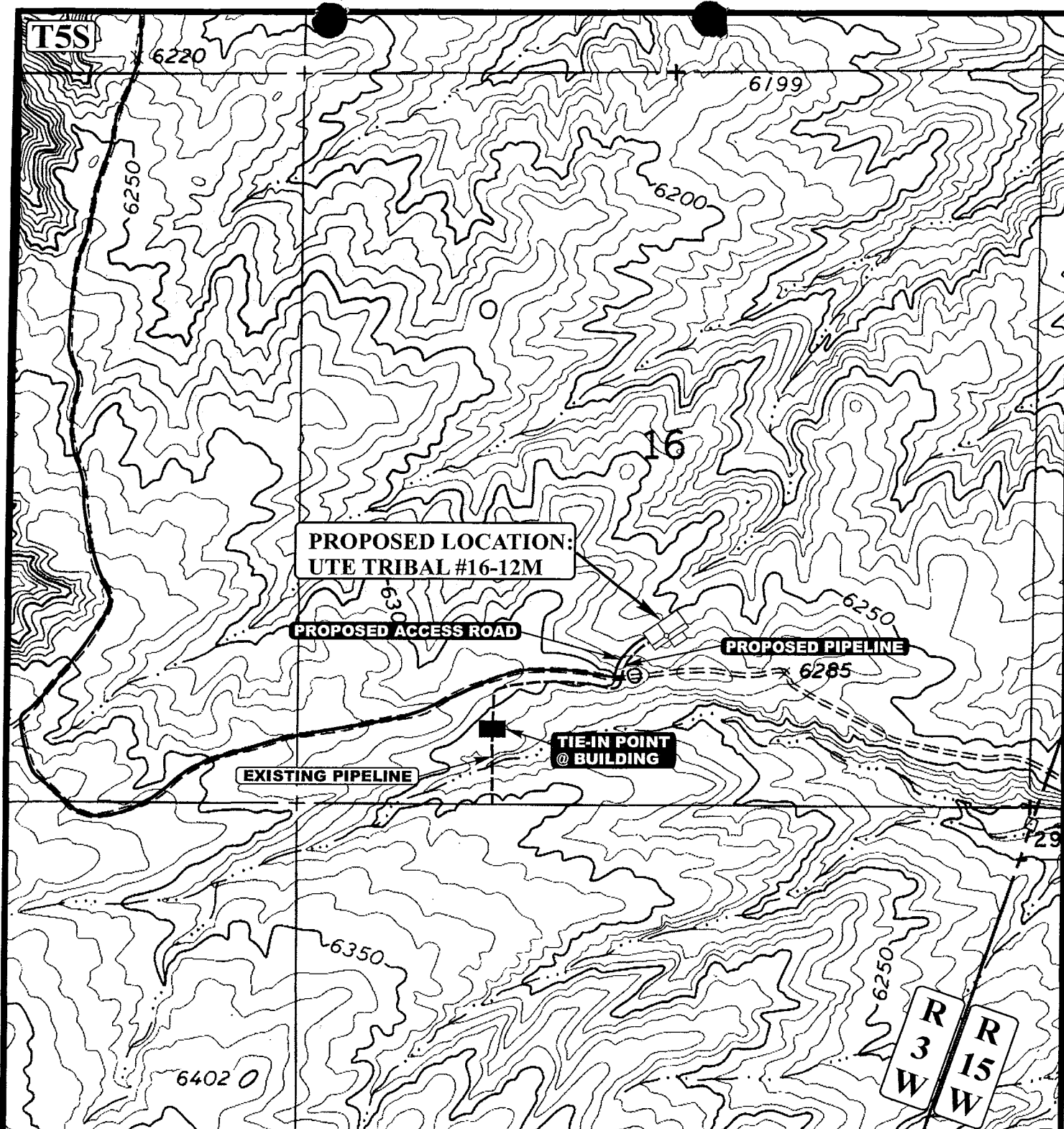


TOPOGRAPHIC  
 MAP

12 18 03  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: T.H. REVISED: 00-00-00





APPROXIMATE TOTAL PIPELINE DISTANCE = 1540' +/-

# LEGEND:

- PROPOSED ACCESS ROAD
- - - - - EXISTING PIPELINE
- . - . - PROPOSED PIPELINE



## PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #16-12M  
SECTION 16, T5S, R3W, U.S.B. & M.  
1251' FSL 2618' FEL



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
MAP

12 18 03  
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: T.H. REVISED: 00-00-00





003

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/26/2004

API NO. ASSIGNED: 43-013-32545

WELL NAME: UTE TRIBAL 16-12M

OPERATOR: PETROGLYPH OPERATING CO ( N3800 )

CONTACT: ED TROTTER

PHONE NUMBER: 435-789-4120

## PROPOSED LOCATION:

SWSE 16 050S 030W

SURFACE: 1251 FSL 2618 FEL

BOTTOM: 1251 FSL 2618 FEL

DUCHESNE

ANTELOPE CREEK ( 60 )

LEASE TYPE: 2 - Indian

LEASE NUMBER: 14-20-H62-3511

SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: CSLPK

COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LATITUDE: 40.04271

LONGITUDE: 110.22743

## RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[] Ind[2] Sta[] Fee[]  
(No. BO 4556 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 43-10152 )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)

## LOCATION AND SITING:

R649-2-3.

Unit

R649-3-2. General

Siting: 460 From Qtr/Qtr &amp; 920' Between Wells

R649-3-3. Exception

☒ Drilling Unit

Board Cause No: 214-2

Eff Date: 6-9-2000

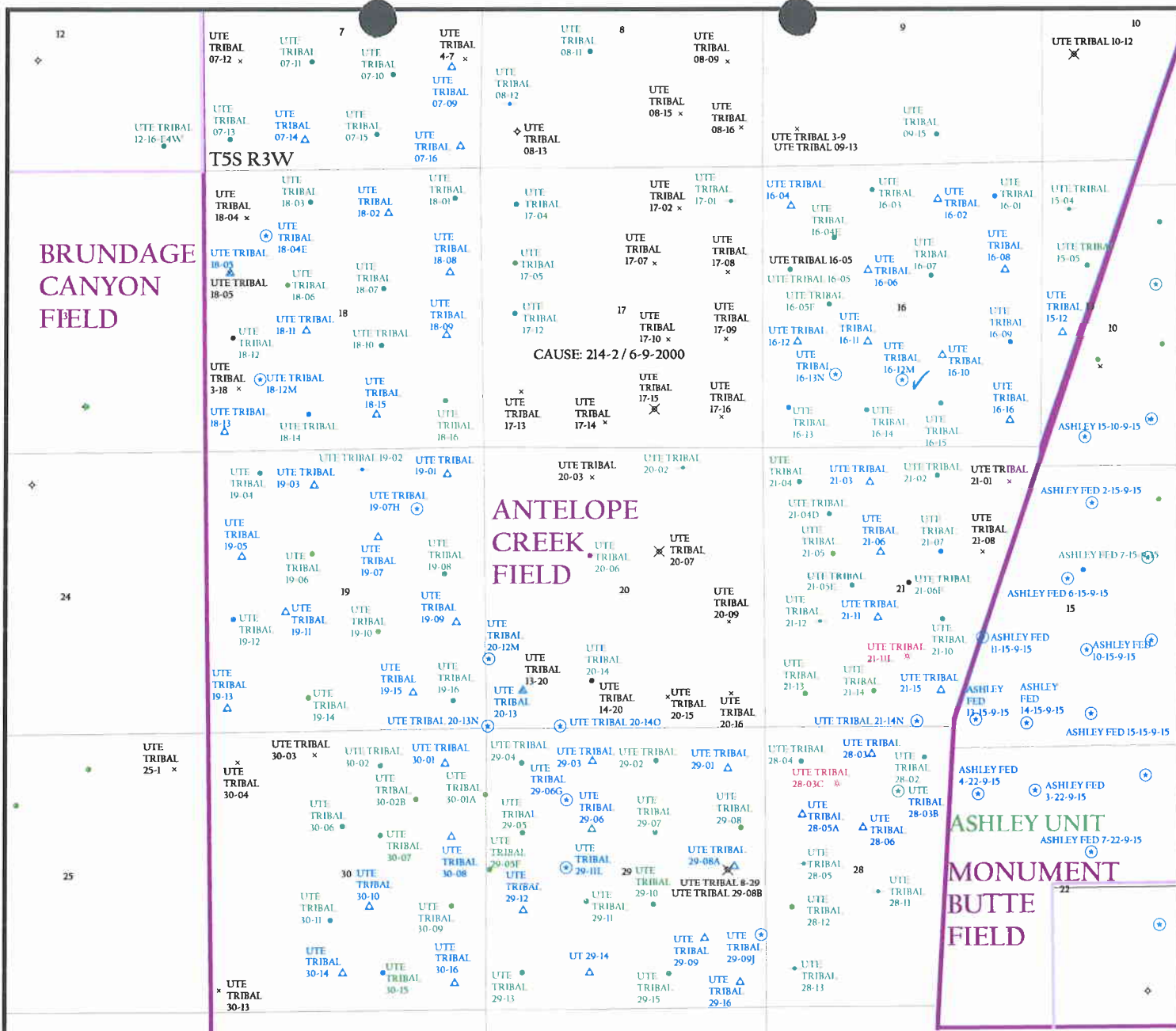
Siting: Suspends Siting

R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS:

1- Federal Approval  
E



OPERATOR: PETROGLYPH OPER CO (N3800)

SEC. 16 T.5S, R.3W

FIELD: ANTELOPE CREEK (60)

COUNTY: DUCHESNE

CAUSE: 214-2 / 6-9-2000

#### Wells

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL

#### Unit Status

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

#### Field Status

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY  
DATE: 2-MARCH-2004



State of Utah

Department of  
Natural Resources

Division of  
Oil, Gas & Mining

ROBERT L. MORGAN  
*Executive Director*

LOWELL P. BRAXTON  
*Division Director*

MICHAEL O. LEAVITT  
*Governor*

OLENE S. WALKER  
*Lieutenant Governor*

March 3, 2004

Petroglyph Operating Company, Inc.  
P O Box 607  
Roosevelt, UT 84066

Re: Ute Tribal 16-12M Well, 1251' FSL, 2618' FEL, SW SE, Sec. 16, T. 5 South,  
R. 3 West, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-32545.

Sincerely,

John R. Baza  
Associate Director

pab  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

Operator: Petroglyph Operating Company, Inc.  
Well Name & Number Ute Tribal 16-12M  
API Number: 43-013-32545  
Lease: 14-20-H62-3511

Location: SW SE                      Sec. 16                      T. 5 South                      R. 3 West

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

005

# APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

2. Name of Operator  
**PETROGLYPH OPERATING CO., INC.**

3a. Address **P.O. BOX 607,**  
**ROOSEVELT, UT 84066**

3b. Phone No. (Include area code)  
**(435)722-2531**

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface **1251' FSL, 2618' FEL (& 2666' FWL)** **SW/SE**

At proposed prod. Zone

14. Distance in miles and direction from nearest town or post office\*  
19.96 MILES SOUTHWEST OF MYTON, UTAH

15. Distance from proposed\* location to nearest property or lease line, ft. **1251'**  
(Also to nearest drig. Unit line, if any)

16. No. of Acres in lease

640'

17. Spacing Unit dedicated to this well

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft. **See Topo**  
**Man "C"**

19. Proposed Depth  
**6000'+**

20. BLM/BIA Bond No. on file

**BO 4556**

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
**6262.6 FEET GRADED GROUND**

22. Approximate date work will start\*  
**UPON APPROVAL**

23. Estimated duration  
**45 DAYS**

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

## 25. Signature

Name (*Printed/Typed*)  
Ed Trotter

Date \_\_\_\_\_

February 12, 2004

Title \_\_\_\_\_  
Agent \_\_\_\_\_

Approved by (Signature)

Name (Printed/Typed)

Date \_\_\_\_\_

**ACTING** Title Assistant Field Manager  
Mineral Resources

Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of Approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*\*(Instructions on reverse)*

CONFIDENTIAL - INFORMATION NOT TO BE RELEASED WITHOUT WRITTEN AUTHORIZATION OF THE FBI

NOTICE OF APPROVAL  
C4PSC0650 UD06M

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Co., Inc.

Well Name & Number: UTE TRIBAL 16-12M

API Number: 43-013-32545

Lease Number: 14-20-H62-3511

Location: SWSE Sec. 16 TWN: 05S RNG: 03W

Agreement: 14-20-H62-4650

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

**Submit an electronic copy of all logs run on this well in LAS format. This submission will replace the requirement for submittal of paper logs to the BLM.**

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

### A. DRILLING PROGRAM

#### 1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands encountered to John Mayers of this office prior to setting the next casing string or requesting plugging orders. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **2M** system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

#### 3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint. Surface casing setting depths are based on ground level elevations only.

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Green River Formation, identified at  $\pm 1,581$  ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vapor proof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.



Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig. The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5(d) shall be submitted to the appropriate Field Office within 60 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (1).

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will

have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office.

All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Ed Forsman (435) 828-7874  
Petroleum Engineer

Kirk Fleetwood (435) 828-7875  
Petroleum Engineer

BLM FAX Machine (435) 781-4410

## EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

Petroglyph Operating Company, Inc. (Petroglyph) will assure the Ute Tribe that any/all contractors and subcontractors have acquired a current Tribal Business License and have updated "Access Permits" prior to construction. All Petroglyph personnel, contractors and subcontractors will have these permits in their vehicles at all times. Companies that have not complied with this COA will be in violation of the Ute Tribal Business License Ordinance, and will be subject to fines and penalties.

Petroglyph employees, representatives, and/or authorized personnel (subcontractors) shall not carry firearms on their person or in their vehicles while working on the Uintah and Ouray Indian Reservation.

Petroglyph employees and/or authorized personnel (subcontractors) in the field will have approved applicable APDs and/or ROW permits/authorizations on their person(s) during all phases of construction.

Petroglyph will notify the Ute Tribe and Bureau of Indian Affairs (BIA) in writing of any requested modification of APDs or Rights-Of Way (ROW). Petroglyph shall receive written notification of authorization or denial of the requested modification. Without authorization, Petroglyph will be subject to fines and penalties.

The Ute Tribe Energy & Minerals Department shall be notified in writing 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday. A Tribal Technician is to routinely monitor construction. Petroglyph shall make arrangements with the Ute Energy & Minerals Department for all monitoring that will exceed regular working hours for Tribal Technicians. A qualified archaeologist accompanied by a Tribal Technician will monitor any trenching construction of the pipeline.

A corridor ROW, 60 feet wide and 356 feet long, shall be granted for pipeline and for the new access road. The constructed, travel width of the access road will be limited to 18 feet. Upon authorization by the Ute Tribe Energy & Minerals Department, the ROW may be wider where sharp curves; deep cuts and fills occur; or, where intersections with other roads are required.

Culverts and diversion ditches will be placed and constructed where needed. Road base gravel will be used where sandy soils make roadways and the drilling location hazardous for access or drilling operations.

Upon completion of the pertinent APD and ROWs, Petroglyph will notify the Ute Tribe Energy & Minerals Department for a Tribal Technician to verify the Affidavit of Completion.

Production waters, oil, and other byproducts shall not be placed on access roads or the well pad.

All vehicular traffic, personnel movement, construction and restoration operations will be confined to the areas examined and approved and to the existing roadways and/or evaluated

access routes.

Petroglyph will implement "Safety and Emergency Plan" and ensure plan compliance.

Petroglyph shall stop construction activities and notify personnel from the Ute Tribe Energy & Minerals Department and BIA if cultural remains including paleontology resources (vertebrate fossils) are exposed or identified during construction. The Ute Tribe Department of Cultural Rights and Protection and the BIA will provide mitigation measures prior to allowing construction.

Petroglyph employees and/or authorized personnel (subcontractors) will not be allowed to collect artifacts and paleontology fossils. No significant cultural resources shall be disturbed.

Petroglyph will control noxious weeds on the well site and ROWs. Petroglyph will be responsible for noxious weed control if weeds spread from the project area onto adjoining land.

Reserve pits will be lined with an impervious synthetic liner. A fence will be constructed around the reserve pit until it is backfilled. Prior to backfilling the reserve pit, all fluids will be pumped from the pit into trucks and hauled, to approved disposal sites. When the reserve pits are backfilled, the surplus oil and mud, etc., will be buried a minimum of 3 feet below the surface of the soil.

A closed system will be used during production. This means that production fluids will be contained in leak-proof tanks. All production fluids will be disposed of at approved disposal sites.

Surface pipelines will be constructed to lay on the soil surface. The pipeline portion of the ROW will not be bladed or cleared of vegetation without authorization of the BIA. Surface pipelines shall be welded in place at well sites or on access roads. They shall be pulled into place and assembled with suitable equipment. Vehicles shall not use pipeline ROWs as access roads unless specifically authorized.

Buried pipelines shall be buried a minimum of 3 feet below the soil surface. After construction is completed the disturbed area shall be contoured to blend into the natural landscape and be reseeded between September 15 and November 1 of the year following construction with perennial vegetation seed mixture provided by the BIA or Ute Tribe.

Before the site is abandoned, Petroglyph will be required to restore the well site and ROWs to near their original state. The disturbed areas will be reseeded with desirable perennial vegetation.

Soil erosion will be mitigated, by reseeding all disturbed areas.

ENGINEERING EVALUATION  
APPLICATION FOR PERMIT TO DRILL

OPERATOR: QEP Uintah Basin Inc.  
WELL NUMBER: OU GB 8MU-4-8-22  
LOCATION: QtrQtr. SENE Sec. 4 Twn. 8S Rng. 22E  
LEASE: U-02510A  
CA/UNIT NAME/NO.: N/A  
COUNTY: UINTAH STATE: UTAH MERIDIAN: SLB & M

DEVELOPMENT Y  
EXPLORATORY   

BLOWOUT PREVENTION EQUIPMENT (BOPE) (ITEM 3)

Anticipated Bottom Hole Pressure                      4740 Probably Low, max MW is 9.5 which would  
be equal to a gradient of 0.494 and ABHP = 5854  
Projected True Vertical Depth                      11850  
ASP = 3247  
Operator's Gradient                      0.400  
(ABHP/TVD)=                      2133                      ASP = ABHP - (0.22 \* TVD)

Operator's proposed BOPE of 3M (Item 3) **DOES NOT EXCEEDS** the ASP and is therefore **NOT ADEQUATE.**

Concerns: **A 5M BOPE system will be required**

CASING PROGRAM (ITEM 4)

See attached casing design evaluation.

Casing setting depths **ARE** across competent formations (see Items 1 & 2; Geologic Report) and therefore **ARE** appropriate. Casing design **IS** adequate.

CEMENTING PROGRAM (ITEM 5)

Surface	12.25	9.625	1200	375.8	Class G	685	1.19	627.0	SURFACE	SURFACE	OK
Production	7.875	4.5	11850	2699.4	HiFill	1217	3.82	3576.1		SURFACE	OK
					Ext Class G	452	1.34	465.9	SURFACE	SURFACE	

\* Expected Fill-Up is calculated assuming 30% excess required for hole variation. The actual volumes of cement will be determined from the caliper log.

All usable quality water, prospectively valuable mineral and/or hydrocarbon zone as specified on the Geologic Report **ARE** adequately isolated and/or protected. See attached Cement Slurry and Calculated Fill-up Worksheets.

Concerns: **The base of the moderately saline water has been identified as  $\pm 4660'$ . The proposed casing/cementing program will protect this resource. As a minimum, the operator will be required to bring the top of cement behind the production casing 200' above the top of the Green River formation  $\pm 3050'$ .**

#### DRILLING FLUID (MUD) PROGRAM (ITEM 6)

Proposed drilling fluid additives **ARE** nontoxic and compatible with formations likely to be encountered.

Concerns: **NONE**

#### TESTING, LOGGING, & CORING PROCEDURES (ITEM 7)

Adequate logs **ARE** proposed (See Geologic Report). Cement Bond evaluation tools **ARE** proposed across critical zones. Special Drill Stem Test operations **ARE NOT** proposed.

Concerns: **NONE**

#### CORRELATIVE RIGHTS

This well **IS** drilled in conformance with a spacing pattern acceptable to the AO.

Spacing Orders: **Standard State Spacing Applies**

Concerns: **NONE**

#### SPECIAL DRILLING OPERATIONS

For Example: Air/Gas drilling - Hydrogen Sulfide - Directional/Horizontal Drilling.

Concerns: **SPECIAL REQUIREMENTS FOR AIR/GAS DRILLING IN ONSHORE ORDER NO. 2 WILL BE ADHERED TO, EXCEPT AS NOTED IN THE VARIANCE REQUESTED IN SECTION 3 OF THE DRILLING PLAN.**

#### MISCELLANEOUS

Any other facets of the proposed operation for consideration (Item 9).

Concerns: **NONE**

#### VARIANCES

All Variances granted **MEET** or **EXCEED** the minimum standards of OOGO No. 2. **YES**

Concerns: **None**

#### RECOMMENDATIONS

**SEE ATTACHED CONDITIONS OF APPROVAL.**

SIGNATURE \_\_\_\_\_

Date April 1, 2004

006

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: Petroglyph Operating Co.  
Address: P.O. Box 607  
Boosevelt, UT. 84066

Operator Account Number: N3800Phone Number: 435-722-2531**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
43-013-32545	Ute Tribal 16-12M		SW	16	55	3W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	12051	5-26-2004			5/31/04	
Comments: <u>CSLPK</u>							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Callie Duncan  
Name (Please Print)  
Callie Duncan  
Signature  
Production Asst  
Title  
RECEIVED 5/27-04  
Date

MAY 27 2004

DIV. OF OIL, GAS &amp; MINING



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

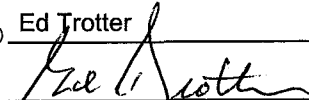
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: BIA 14-20-H62-3511
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO. INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE INDIAN TRIBE
3. ADDRESS OF OPERATOR: P.O. BOX 607 CITY ROOSEVELT STATE UT ZIP 84066		7. UNIT or CA AGREEMENT NAME: UTE TRIBAL
PHONE NUMBER: (435) 722-2531		8. WELL NAME and NUMBER: UTE TRIBAL 16-12M
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1251' FSL, 2618' FEL		9. API NUMBER: 4301332545
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 16 5S 3W U		10. FIELD AND POOL, OR WILDCAT: ANTELOPE CREEK
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input checked="" type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Petroglyph Operating Co., Inc. requests that the name of the subject well be changed to UTE TRIBAL 16-14L.

NAME (PLEASE PRINT) Ed Trotter TITLE Agent  
SIGNATURE  DATE 6/2/2004

(This space for State use only)

RECEIVED  
JUN 25 2004  
DIV. OF OIL, GAS & MINING

JUL 21 2004

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

DIV. OF OIL, GAS &amp; MINING

AMENDED REPORT ☐  
(highlight changes)

FORM 8

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

b. TYPE OF WORK: NEW WELL ☒ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER ☐

2. NAME OF OPERATOR: Petroglyph Operating Co.

3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT. ZIP 84066 PHONE NUMBER: 722-2531

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: SWSE 1251 FSL 2618 FEL  
AT TOP PRODUCING INTERVAL REPORTED BELOW: SWSE 1251 FSL 2618 FEL  
AT TOTAL DEPTH: SWSE 1251 FSL 2618 FEL

5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-HG2-3511

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe

7. UNIT or CA AGREEMENT NAME: Ute Tribal

8. WELL NAME and NUMBER: Ute Tribal 16-14L

9. API NUMBER: 43-013-32545

10. FIELD AND POOL, OR WILDCAT: Antelope Creek

11. QTR/QR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE Sec 16, T35, R3W mer UBM

12. COUNTY: Duchesne

13. STATE: UTAH

14. DATE SPUNDED: 5-26-04 15. DATE T.D. REACHED: 6-22-04 16. DATE COMPLETED: 7-2-04

ABANDONED ☐ READY TO PRODUCE ☒

17. ELEVATIONS (DF, RKB, RT, GL): 10KB

18. TOTAL DEPTH: MD 6025 TVD 19. PLUG BACK T.D.: MD 5948 TVD 20. IF MULTIPLE COMPLETIONS, HOW MANY? 21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each):  
Compensated density, compensated neutron, CBL, Dual Ind.

23. WAS WELL CORED? NO ☒ YES ☐ (Submit analysis)  
WAS DST RUN? NO ☒ YES ☐ (Submit report)  
DIRECTIONAL SURVEY? NO ☒ YES ☐ (Submit copy)

## 24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (W/L)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
12.250	8.625 J-55	24.0	0	314		225	47	0	
7.875	5.500 J-55	15.5	0	5948		635	270	1000	

## 25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	5780							

## 26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Green River	4768	5690			5685 to 5690	.420	20	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) Green River					4907 to 4921	.420	56	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C) Green River					4768 to 4774	.420	24	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(D) Green River								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

## 28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5685 to 5690	21000# Sand Frac
4907 to 4921	39000# Sand Frac
4768 to 4774	24000# Sand Frac

## 29. ENCLOSED ATTACHMENTS:

- ☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY  
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: \_\_\_\_\_

## 30. WELL STATUS:

POW

## 31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 7-3-04	TEST DATE: 7-15-04	HOURS TESTED: 24	TEST PRODUCTION RATES: (1)	OIL - BBL: 33	GAS - MCF: 25	WATER - BBL: 50	PROD. METHOD:
CHOKE SIZE: 0	TBG. PRESS. 75	CSG. PRESS. 33.0	API GRAVITY 33.0	BTU - GAS 8650	GAS/OIL RATIO 758	24 HR PRODUCTION RATES: (1)	INTERVAL STATUS: POW

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: (1)	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: (1)	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: (1)	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: (1)	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: (1)	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: (1)	INTERVAL STATUS:

## 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Used on lease.

## 33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Green River	4768	4774			
Green River	4907	4921			
Green River	5684	5690			

## 35. ADDITIONAL REMARKS (Include plugging procedure)

No remarks provided.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT)

Matt Green

TITLE

Dr. Engineer

SIGNATURE

Matt Green

DATE

7/16/04

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation

- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

**PETROGLYPH****Petroglyph Energy, Inc.**
 555 S. COLE RD.  
 BOISE, ID 83709  
 (208) 377-6000

009

**Drilling Chronological  
Regulatory**

<b>Well Name:</b> UTE TRIBAL 16-14L 43-013-32545			
Field Name	ANTELOPE CREEK	S/T/R	16/5S/3W
Operator	GLYPH OPERATING COM	Location Desc	
Project AFE:	42162	AFEs Associated:	/ / /
County, State	DUCHESNE, UT		
District	UTAH		

**Daily Summary**

Activity Date :	5/14/2004	Days From Spud :	0	Current Depth :	0 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :				Rig Name:			
Formation :				Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
	0.00					NIH
Total:	0.00					

**Daily Summary**

Activity Date :	5/18/2004	Days From Spud :	0	Current Depth :	0 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :				Rig Name:			
Formation :				Weather:			

**Daily Summary**

Activity Date :	5/24/2004	Days From Spud :	-2	Current Depth :	0 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :				Rig Name:			
Formation :				Weather:			

**Daily Summary**

Activity Date :	5/28/2004	Days From Spud :	3	Current Depth :	0 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :				Rig Name:			
Formation :				Weather:			

**Daily Summary**

Activity Date :	6/3/2004	Days From Spud :	9	Current Depth :	0 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :				Rig Name:			
Formation :				Weather:			

**Daily Summary**

Activity Date :	6/9/2004	Days From Spud :	15	Current Depth :	6000 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :				Rig Name:			
Formation :				Weather:			

**Daily Summary**

Activity Date :	6/16/2004	Days From Spud :	22	Current Depth :	0 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :				Rig Name:			
Formation :				Weather:			

**Operations**

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	8.00	01	Finish rig down & move rig	0	0	NIH
14:00	8.00	01	Rig down move rig up	0	0	NIH
22:00	2.00	01	Rig up	0	0	NIH
0:00	3.00	15	Press test BOP casing, choke Tw & kelly valve	0	0	NIH
3:00	2.00	43	Strung tool & picked up TDC tag cement	0	0	NIH
5:00	1.00	35	Drill cement	0	0	NIH
Total:	24.00					

RECEIVED

AUG 27 2004

# Well Name: UTE TRIBAL 16-14L

Field Name	ANTELOPE CREEK	S/T/R	16/5S/3W	County, State	DUCHESNE, UT
Operator	GLYPH OPERATING COM	Location Desc		District	UTAH

## Daily Summary

Activity Date :	6/17/2004	Days From Spud :	23	Current Depth :	1484 F	24 Hr. Footage Made :	1145 F
Rig Company :		Rig Name:					
Formation :		Weather:					

## Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
10:00	1.00	35	Drill cement	0	0	NIH
11:00	4.50	02	Drill f/ 339 to 489	339	489	NIH
15:30	0.50	10	survey & rig service	489	489	NIH
16:00	2.00	02	Drill from 489 to 579	489	579	NIH
18:00	6.00	02	Drill from 579 to 913	579	913	NIH
0:00	0.50	07	Service rig	913	913	NIH
0:30	1.50	02	Drill from 913 to 977	913	977	NIH
2:00	1.00	02	Drill 977 to 1072	977	1072	NIH
3:00	0.50	07	Survey	1072	1072	NIH
3:30	6.50	02	Drill from 1072 to 1484	1072	1484	NIH
Total:	24.00					

## Daily Summary

Activity Date :	6/18/2004	Days From Spud :	24	Current Depth :	3094 F	24 Hr. Footage Made :	1610 F
Rig Company :		Rig Name:					
Formation :		Weather:					

## Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
10:00	7.25	02	Drilling from 1484 to 2052	1484	2052	NIH
17:15	3.25	10	Survey Service rig	2052	2052	NIH
20:30	4.00	02	Drilling from 2052 to 2590	2052	2590	NIH
0:30	6.50	02	Drilling from 2590 to 3063	2590	3063	NIH
7:00	1.50	10	Survey service rig	3063	3063	NIH
8:30	1.00	02	Drilling from 3063 to 3094	3063	3094	NIH
Total:	23.50					

## Daily Summary

Activity Date :	6/19/2004	Days From Spud :	25	Current Depth :	4138 F	24 Hr. Footage Made :	1044 F
Rig Company :		Rig Name:					
Formation :		Weather:					

## Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
10:00	8.00	02	Drilling from 3094 to 3474	3094	3474	NIH
18:00	1.50	02	Drilling from 3474 to 3506	3474	3506	NIH
19:30	1.00	07	Service rig level derrick	3506	3506	NIH
20:30	6.50	02	Drilling from 3506 to 3789	3506	3789	NIH
3:00	6.25	02	Drilling from 3789 to 4106	3789	4106	NIH
9:15	0.75	10	Survey	4106	4106	NIH
10:00	1.00	02	Drilling 4106 to 4138	4106	4138	NIH
Total:	25.00					

# Well Name: UTE TRIBAL 16-14L

Field Name	ANTELOPE CREEK	S/T/R	16/5S/3W	County, State	DUCHESNE, UT
Operator	GLYPH OPERATING COM	Location Desc		District	UTAH

## Daily Summary

Activity Date :	6/20/2004	Days From Spud :	26	Current Depth :	4548 F	24 Hr. Footage Made :	410 F
Rig Company :		Rig Name:					
Formation :		Weather:					

## Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
10:00	8.00	02	Drilling rom 4138 to 4485	4138	4485	NIH
18:00	2.50	06	Trip out for bit	4485	4485	NIH
20:30	0.50	07	Service rig	4485	4485	NIH
21:00	1.50	06	Lay down motor, pick other motor trip BHA in	4485	4485	NIH
22:30	3.50	08	Replace brake blocks work on drive line	4485	4485	NIH
2:00	2.00	08	Work on brake	4485	4485	NIH
4:00	2.00	06	Trip in hole	4485	4485	NIH
6:00	1.25	03	Load hole & ream 40'	4485	4485	NIH
7:15	2.75	02	Drilling from 4470 to 4548	4485	4548	NIH
Total:	24.00					

## Daily Summary

Activity Date :	6/21/2004	Days From Spud :	27	Current Depth :	5371 F	24 Hr. Footage Made :	823 F
Rig Company :		Rig Name:					
Formation :		Weather:					

## Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
22:00	8.00	02	Drill from 4548 to 4832	4548	4832	NIH
6:00	4.25	02	Drill from 4832 to 4959	4832	4959	NIH
10:15	0.50	07	Lubricate rig	4959	4959	NIH
10:45	3.25	02	Drill from 4959 to 5022	4959	5022	NIH
14:00	1.00	02	Drill from 5022 to 5086	5022	5086	NIH
15:00	0.50	10	Dev. Survey and ser rig and pump	5086	5086	NIH
15:30	6.50	02	Drill 5086 to 5371	5086	5371	NIH
Total:	24.00					

## Daily Summary

Activity Date :	6/22/2004	Days From Spud :	28	Current Depth :	6000 F	24 Hr. Footage Made :	629 F
Rig Company :		Rig Name:					
Formation :		Weather:					

## Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
22:00	8.00	02	Drill from 5371 to 5751	5371	5751	NIH
6:00	6.00	02	Drill 5751 to 6000	5751	6000	NIH
12:00	13.00	05	Circ. Hole	6000	6000	NIH
1:00	13.00	36	Come out lay down drill pipe	6000	6000	NIH
14:00	3.50	36	Lay down dp and Dc	6000	6000	NIH
17:30	4.50	11	Rig up loggers and log hole loggers TD 6025 rig down loggers	6000	6000	NIH
Total:	48.00					

<b>Well Name: UTE TRIBAL 16-14L</b>									
Field Name	ANTELOPE CREEK	S/T/R	16/5S/3W	County, State	DUCHESNE, UT				
Operator	GLYPH OPERATING COM	Location Desc		District	UTAH				

Daily Summary									
Activity Date :	6/23/2004	Days From Spud :	29	Current Depth :	6000 F	24 Hr. Footage Made :	0 Ft		
Rig Company :				Rig Name:					
Formation :				Weather:					

Operations									
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run			
22:00	4.00	12	Rig up T & M Casers and run 5-1/2 casing	6000	6000	NIH			
2:00	1.00	01	Rig down T & M and rig up Big 4 and circulate	6000	6000	NIH			
3:00	1.00	12	Cement W/ Bi 4 plug down at 4:00 am 635 Sx.	6000	6000	NIH			
4:00	2.00	52	Set slips and rig down to move	6000	6000	NIH			
6:00	8.00	01	Rig down and move rig up	6000	6000	NIH			
14:00	2.00	14	Nipple up bop	6000	6000	NIH			
16:00	5.50	15	Press test bop	6000	6000	NIH			
21:30	0.50	28	Pick up BHA	6000	6000	NIH			
Total:	24.00								

Daily Summary									
Activity Date :	6/29/2004	Days From Spud :	1	Current Depth :	6000 F	24 Hr. Footage Made :	0 Ft		
Rig Company :				Rig Name:					
Formation :				Weather:					

Operations									
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run			
	0.00			0	0	NIH			
Total:	0.00								

Formation									
Formation Name	Current Well Top	Subsea Datum	Ref Well Top	Elec Top	Comments				

Casing									
Date In	Setting Depth	Jts Run	Type	Size	Weight	Grade	MINID	Hole Diam	TD
5/26/2004	314.75	7	3. Surface	8.625	24		0	12.25	314
Stage: 1, Tail, 0, 225, PREMIUM CEMENT, Class G, 1.18, 15.6									
6/22/2004	5997.65	140	5. Production	5.5	15.5	J-55	0	7.875	5998
Stage: 0, Lead, 0, 225, 16% gel 10# sk gilsonite 3% salt 3# sk GR 3 1/4# sk flocele, Class G, 3.82, 11									
Stage: 0, Tail, 0, 310, 10% Gypsum 1/4# sk flocele, Class G, 1.6, 14.2									
Stage: 0, Tail, 0, 100, 10% gypsum 1/4# sk flocele .3% fluid loss, Class G, 1.6, 14.2									